

INVISTA Seaford Plant

EPA ID #: DED002348845

Location:

25876 DuPont Road
Seaford, DE 19973-4399

Facility property area: 750 acres

Congressional District: 1

Other Names: former Dupont Seaford Plant

Last Updated: July 5, 2011

Contact

DNREC Project Contact

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Status

The investigation, remedy selection, and remedy implementation at this Facility are complete, and Institutional Controls have been put into place to prevent exposure to contamination remaining on-site. As the current owner of the real property, DuPont is responsible for on-going monitoring and/or maintenance of the remedy consistent with the Record of Decision.

Background

The Seaford Facility is located south of Seaford, Delaware on DuPont Road (formally named Woodland Road). The 750 acre plant property is bordered by the Nanticoke River to the east and the Norfolk Southern Railroad to the north. Two branches of the Nanticoke River flow east along the facility's south and southwest property lines.

The facility was constructed in 1938 by DuPont for the production of textile fibers. It was owned and operated by DuPont until the sale of the operations and assets to INVISTA in 2004. DuPont retained ownership of the real property to conduct the RCRA corrective action activities at the facility.

INVISTA recently restructured the operations at the Seaford plant. The Seaford plant no longer produces the Bulk Continuous Filament (BCF) nylon and has idled the facilities associated with

their Polymerization Operations. As a result of the restructuring efforts, hazardous waste generation is mainly from the facility's process lab and two maintenance shops. Waste is accumulated in the facility's Process Lab Less Than 90-day Accumulation Area and the C2 Warehouse Less Than 90-day Accumulation Area.

The Seaford plant receives hexamethylenediamine (HMD) by rail. The HMD is used in a remaining production process to manufacture a salt product that is then shipped to other plants.

Following an investigation and comment period that extended from April 16 to May 15, 2006, DNREC issued a final RCRA corrective action decision for this Facility on May 25, 2006.

The selected remedy at the Seaford Facility consists of the following items:

SWMU 1: Sampling of well L-6D and monitored natural attenuation of carbon tetrachloride in conjunction with institutional controls. The institutional control is a groundwater management zone around the limits of the carbon tetrachloride plume. On July 20, 2010, the SHWMB concurred with DuPont's recommendation to discontinue sampling monitoring well L-6D for SWMU 1, as carbon tetrachloride has been reported below its MCL for the past three consecutive monitoring rounds.

SWMU 7/12/13: Sampling for arsenic in twelve existing wells and three surface water locations, and monitored natural attenuation of arsenic in conjunction with institutional controls. The institutional control is a groundwater management zone around the limits of the arsenic plume.

SWMU 13/17: Installation of a protective soil cover installed over exposed solid waste; completed October 30, 2006.

Cleanup History

Installation of a protective soil cover over exposed solid waste proximate to SWMU 13/17 was completed October 30, 2006. On July 20, 2010 The SHWMB concurred with DuPont's recommendation to discontinue sampling monitoring well L-6D for SWMU 1, as carbon tetrachloride has been reported below its MCL for the past three consecutive monitoring rounds.

Contaminants and Risks

Wastes evaluated included fly ash, spent halogenated solvents, discarded commercial chemical products and wastes that exhibited corrosive and/or ignitable properties. Groundwater underlying localized areas of the facility contains low levels of metals and volatile organic compounds and previously exhibited low pH. The primary metal of concern in groundwater and sediment is arsenic. The source of increased concentrations of arsenic in groundwater was identified as coal ash generated by the facility power plant. A coal pile adjacent to the power plant was identified as the source of low groundwater pH. A formerly operating landfill was identified as the source of volatile organic compounds in the groundwater. These releases to groundwater were remediated by the implementation of various interim measures, corrective measures and final remedies.

Institutional Controls

Two Institutional Controls were enacted from 2008 – 2009.

1. A Memorandum of Agreement between the DNREC Division of Air and Waste and the DNREC Division of Water Resources was signed and put in place on April 3, 2008. The Agreement restricts water supply wells from being installed within the footprint of two groundwater management zones. One groundwater management zone extends beyond the footprint of an onsite arsenic groundwater contaminant plume. The second groundwater management zone extends beyond the footprint of an onsite carbon tetrachloride groundwater contaminant plume.
2. An Environmental Covenant (EC) between DNREC and DuPont was filed with the Sussex County Assessment Division on September 29, 2009. The EC prohibits withdrawal of groundwater from the Groundwater Management Zones (GMZs). In addition, the EC enacts land use restrictions for designated areas and bans any activities which may interfere with the remedy.

More details and a map of the institutional controls can be viewed at the following Interactive Google Maps website:

http://maps.google.com/maps?f=q&source=s_q&hl=en&geocode=&q=http://www.epa.gov/reg3wcmd/ca/de/kml/map_DED002348845.kml&ie=UTF8&t=h&z=16

Documents and Reports

2011-02-28: 4th Annual Sampling, Analysis, Monitoring and Reporting (SAMR) Report
2010: DNREC Approval of CMI Construction Completion Report
2010-04-07: 3rd Annual Sampling, Analysis, Monitoring and Reporting (SAMR) Report,
2009-01-30: 2nd Annual Sampling, Analysis, Monitoring and Reporting (SAMR) Report
2007-05-15: 1st Annual Sampling, Analysis, Monitoring and Reporting (SAMR) Report

2007-05-09: Corrective Measures Implementation (CMI) Construction Completion Report
2007: EPA Termination of Final Administrative Order on Consent
2006-05-25: Corrective Action Final Decision
2006-04: Statement of Basis
2005: Focused Corrective Measures Report
2005: RCRA Facility Investigation Phase II Final Report
2003-09-29: Environmental Indicator for “Migration of Contaminated Groundwater Under Control”
2002-02-14: Environmental Indicator “Current Human Exposures Under Control”
1999: Phase I RCRA Facility Investigation (revised)
1998: Reports on Ash Pond Sampling and Analysis; DuPont Env Remediation Services
1995: Phase I RCRA Facility Investigation
1993: Phase 1 Hydro-geologic Study; DuPont Environmental Remediation Services
1993: RCRA Facility Investigation, Task III
1992: RCRA Facility Investigation, Task II
1992: RCRA Facility Investigation, Task I
1992: EPA Final Administrative Order on Consent

Documents and reports regarding this facility also can be reviewed in person at these locations:

Delaware Department of Natural Resources and Environmental Control
89 Kings Highway
Dover, DE 19901
Phone: (302) 739-9403

Please call for an appointment.

[Submit a FOIA Request](http://www.dnrec.state.de.us/air/aqm_page/foia.htm): Instructions on how to submit a FOIA request are provided at:
http://www.dnrec.state.de.us/air/aqm_page/foia.htm

Photos, Maps and Diagrams

An interactive Google map of the facility and description of institutional controls can be viewed at:

http://maps.google.com/maps?f=q&source=s_q&hl=en&geocode=&q=http://www.epa.gov/reg3wcmd/ca/de/kml/map_DED002348845.kml&ie=UTF8&t=h&z=16

Community Information

During remedy selection, DNREC issued a public notice for a 30-day public comment period to review and comment on the “Statement of Basis” for the DuPont Seaford facility. The public comment period was in effect from April 16 to May 15, 2006 and afforded the community an opportunity to review the entire facility file and the proposed corrective measures for the site.

Questions

DNREC is dedicated to providing you with timely and accurate information about our work at this site. If you have any questions or concerns, please contact DNREC Project Manager Douglas Zeiters at 302-739-9403.